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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/554,921	10/31/2005	Hiroshi Miura	280271US0X PCT	2311	
	7590 03/31/201 AK, MCCLELLAND l	EXAMINER			
1940 DUKE STREET ALEXANDRIA, VA 22314			PALENIK, JEFFREY T		
ALEAANDRIA, VA 22314			ART UNIT	PAPER NUMBER	
			1615		
			NOTIFICATION DATE	DELIVERY MODE	
			03/31/2010	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/554,921	MIURA ET AL.	
Examiner	Art Unit	

	Jeffrey T. Palenik	1615				
The MAILING DATE of this communication appe	ars on the cover sheet with the c	correspondence add	ress			
THE REPLY FILED <u>17 March 2010</u> FAILS TO PLACE THIS AP	PLICATION IN CONDITION FOR	ALLOWANCE.				
The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:						
a) The period for reply expires <u>6</u> months from the mailing date	of the final rejection.					
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire a Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07(dvisory Action, or (2) the date set forth a later than SIX MONTHS from the mailing b). ONLY CHECK BOX (b) WHEN THE f).	g date of the final rejection FIRST REPLY WAS FI	on. LED WITHIN TWO			
extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee hader 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, ay reduce any earned patent term adjustment. See 37 CFR 1.704(b). OTICE OF APPEAL						
2. The Notice of Appeal was filed on <u>17 March 2010</u> . A brief date of filing the Notice of Appeal (37 CFR 41.37(a)), or a Since a Notice of Appeal has been filed, any reply must be AMENDMENTS	ny extension thereof (37 CFR 41.37	7(e)), to avoid dismiss	al of the appeal.			
3. The proposed amendment(s) filed after a final rejection, be	out prior to the date of filing a brief	will not be entered be	acallee			
(a) They raise new issues that would require further cor	nsideration and/or search (see NOT		:caus c			
(c) They are not deemed to place the application in bet	• •	ducing or simplifying t	he issues for			
appeal; and/or (d) They present additional claims without canceling a control of the control of	corresponding number of finally reje	ected claims.				
NOTE: (See 37 CFR 1.116 and 41.33(a)).	OA Coo official Notice of Non-Coo	!:	DTOL 204)			
 The amendments are not in compliance with 37 CFR 1.12 Applicant's reply has overcome the following rejection(s): 		mpliant Amendment (PTOL-324).			
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 	owable if submitted in a separate, t	imely filed amendmer	nt canceling the			
7. For purposes of appeal, the proposed amendment(s): a) I how the new or amended claims would be rejected is prov. The status of the claim(s) is (or will be) as follows: Claim(s) allowed:		l be entered and an e	xplanation of			
Claim(s) allowed Claim(s) objected to:						
Claim(s) rejected:						
Claim(s) withdrawn from consideration: AFFIDAVIT OR OTHER EVIDENCE						
 The affidavit or other evidence filed after a final action, bu because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 						
 The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary 	vercome <u>all</u> rejections under appea and was not earlier presented. Se	al and/or appellant fail see 37 CFR 41.33(d)(1	s to provide a).			
10. ☑ The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER	n of the status of the claims after er	ntry is below or attach	ed.			
11. The request for reconsideration has been considered bu See Continuation Sheet.	t does NOT place the application in	condition for allowan	ce because:			
12. Note the attached Information <i>Disclosure Statement</i> (s). (13. Other:	PTO/SB/08) Paper No(s)					
/Jeffrey T. Palenik/	/Carlos A. Azpuru/					
Examiner, Art Unit 1615	Primary Examiner, Art U	nit 1615				

Continuation of 11. does NOT place the application in condition for allowance because: Following the interview dated 2 March 2010 Applicants have re-submitted their 132 Declarations (originally filed 6 July 2009), and have provided additional information concerning both the properties of the colloidal silica employed by Verhoff as well as properties of the silicon-based material which appears in the instant claims. As was stated in the interview, information submitted on behalf of these properties would be given consideration. Having fully reconsidered the rejections in light of the evidence, arguments and declarations, the Examiner respectfully maintains the rejection under 35 USC 103(a).

As was discussed in the interview, Applicants sought to distinguish over the art of record, primarily the Verhoff reference. At the outset, it appeared to the Examiners that a simple showing of the additional property data for the silicon material would suffice. However, in reconsidering the Verhoff reference, in light of Applicants' remarks and Declaration, the Examiner discovered that while Verhoff does preferably focus on the use of colloidal silica particles (e.g. material) as a silicon-based source, the use of porous silica material is also taught and suggested.

Applicants have clearly distinguished colloidal silica from porous silica, per the interview and subsequent remarks. Applicants have also remarked that the Verhoff reference teaches away on the grounds that the method of preparation involves milling of silicon material (e.g. employs milled bodies) in addition to the application of supercritical fluids.

First concerning the methods of preparation, the Examiner respectfully points out that the milling of the media bodies (e.g. silica particles) is not precluded by the instantly amended claims as the composition "comprises" (MPEP §2111.03) a porous silicon material, and the composition is produced by treating said mixture with a supercritical fluid. Otherwise stated, the claim does not exclude that the particles may be milled.

Secondly, concerning the porosity of the particles employed by Verhoff, despite the invention being preferably directed to using colloidal silica material (e.g. a non-porous form of silica), Verhoff further teaches that "[m]illing media bodies comprising biocompatible polymer can be roughened or ridged or made porous such as by leaching or compounding with soluble inorganic salts or soluble organic compounds then forming beads from the compounded polymer, and then leaching the soluble material to leave pores in the beads" (e.g., [0140], [0141], and [0143]) The porous beads formed can then be used as milling media bodies. As such, it appears that the reference suggests that non-porous porous silicon dioxide bodies may be used to produce porous bodies through chemical modification.

For these reasons, the rejection over claims 21-24 made under 35 USC 103(a) is maintained.